

Rpt. 5a.

REPORT ON BOILERS.

No. 10529^c

Date of writing Report 2nd March 1927

When handed in at Local Office

Received at London Office

Port of AMSTERDAM

No. in Reg. Book. Survey held at AMSTERDAM

Date, First Survey 6th April, 1925 Last Survey 17th February 1927.

on the Steel Single Screw Motor Vessel "C L A M"

(Number of Visits 15)

Gross 7412

Net 4235

Master - Built at Amsterdam

By whom built Ned. Scheepsbouw My Yard No. 182 When built 1927

Engines made at Amsterdam

By whom made Werkspoor

Boilers made at Amsterdam

By whom made Werkspoor

Engine No. - When made 1927

Nominal Horse Power 1200

Owners Anglo-Saxon Petroleum Co., Lim.

Boiler No. - When made 1926

Port belonging to London

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Colville (Furness Leeds Forge)

Total Heating Surface of Boilers 2452 sq. ft. ✓

(Letter for Record S ✓)

No. and Description of Boilers 2 Horizontal Main Boilers. ✓

Is forced draught fitted Yes ✓

Coal or Oil fired

Tested by hydraulic pressure to 320 lb. ✓

Date of test 4-1-26

No. of Certificate 319/320

Working Pressure 180 lb. ✓

Area of Firegrate in each Boiler 2

No. and Description of safety valves to each boiler 2 - Spring loaded. ✓

Area of each set of valves per boiler { per Rule 9.459 inch ✓
as fitted 9.459 inch ✓

Pressure to which they are adjusted 180 lb. ✓

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler 2

Smallest distance between boilers or uptakes and bunkers or woodwork 2

Smallest distance between shell of boiler and tank top plating Top of cross bunkers 52" Is oil fuel carried in the double bottom under boilers Yes ✓

Largest internal dia. of boilers 10' 6" ✓

Length 10' 6" ✓

Shell plates: Material Steel ✓

Tensile strength 29 1/2 - 33 tons ✓

Thickness 29/32" ✓

Are the shell plates welded or flanged No. ✓

Description of riveting: circ. seams { end All riveted ✓
inter. 2Long. seams All butt. Strip; 1/2 inch diameter of rivet holes in { circ. seams 6 3/4" ✓
long. seams 6 3/4" ✓Pitch of rivets { 3 1/4" ✓
6 3/4" ✓Percentage of strength of circ. end seams { plate 40% ✓
rivets 38% ✓Percentage of strength of circ. intermediate seam { plate 2 ✓
rivets 2 ✓Percentage of strength of longitudinal joint { plate 85.5% ✓
rivets 84.5% ✓

combined 88% ✓

Working pressure of shell by Rules 198 lb. ✓

Thickness of butt straps { outer 53/64" ✓
inner 53/64" ✓

No. and Description of Furnaces in each Boiler 2 205 Main furnaces ✓

Tensile strength 26-30 tons ✓

Smallest outside diameter 34 1/2" ✓

Length of plain part { top 2 ✓
bottom 2 ✓Thickness of plates { crown 15/32" ✓
bottom 15/32" ✓

Description of longitudinal joint welded. ✓

Dimensions of stiffening rings on furnace or c.c. bottom 2

Working pressure of furnace by Rules 195 lb. ✓

End plates in steam space: Material Steel ✓

Tensile strength 26-30 tons ✓

Thickness 6 3/4" ✓

How are stays secured All nuts ✓

Pitch of stays 15 3/4 x 15 3/4 ✓

Tube plates: Material { front Steel ✓
back Steel ✓Tensile strength { 26-30 tons ✓
26-30 tons ✓

Working pressure by Rules 182 lb. ✓

Thickness { 6 3/4" ✓
25/32" ✓

Lean pitch of stay tubes in nests 10°

Pitch across wide water spaces 14 3/16" ✓

Working pressure { front 185 lb. ✓
back 186 lb. ✓

Girders to combustion chamber tops: Material Steel ✓

Tensile strength 28-32 tons ✓

Depth and thickness of girder

Centre 6 3/8" x 1 1/2" ✓

Length as per Rule 25 7/8" ✓

Distance apart 4 7/8" ✓

No. and pitch of stays

Each 2 x 8 1/4" ✓

Working pressure by Rules 190 lb. ✓

Combustion chamber plates: Material Steel ✓

Tensile strength 26-30 tons ✓

Thickness: Sides 23/32" ✓

Back 23/32" ✓

Top 23/32" ✓

Bottom 23/32" ✓

Pitch of stays to ditto: Sides 8 1/4" x 4 7/16" ✓

Back 8 3/8" x 4 7/16" ✓

Top 8 1/2" x 4 7/16" ✓

Are stays fitted with nuts or riveted over riveted over ✓

Working pressure by Rules 190 lb. ✓

Front plate at bottom: Material Steel ✓

Tensile strength 26-30 tons ✓

Thickness 6 3/4" ✓

Lower back plate: Material Steel ✓

Tensile strength 26-30 tons ✓

Thickness 6 3/4" ✓

Pitch of stays at wide water space 13 x 5 7/8" ✓

Are stays fitted with nuts or riveted over nutted ✓

Working Pressure 330 lb. ✓

Main stays: Material Steel ✓

Tensile strength 28-32 tons ✓

Diameter { At body of stay 2 1/2" ✓
Over threads 2 1/2" ✓

No. of threads per inch 8 ✓

Area supported by each stay 244 sq. inch ✓

Working pressure by Rules 185 lb. ✓

Screw stays: Material Steel ✓

Tensile strength 26-30 tons ✓

Diameter { At turned off part 1 1/2" ✓
Over threads 1 1/2" ✓

No. of threads per inch 11 ✓

Area supported by each stay 62.5 sq. inch ✓

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Working pressure by Rules 198 lb. Are the stays drilled at the outer ends Yes ✓ Margin stays: Diameter { At turned off part, 1 1/2" ✓
Over threads
No. of threads per inch 11 ✓ Area supported by each stay 60 sq. inch Working pressure by Rules 206 lb.
Tubes: Material lap welded iron External diameter { Plain 2 3/4" ✓ Thickness { 5/16" ✓ No. of threads per inch 11 ✓
Stay 2 3/4" ✓ Manhole compensation: Size of opening in
Pitch of tubes 3 5/16" ✓ Working pressure by Rules 215 lb. No. of rivets and diameter of rivet holes 40 - 1 1/8" ✓
shell plate 14 1/2" x 18 1/2" ✓ Section of compensating ring 16 sq. inch ✓ Steam Dome: Material No dome ✓
Outer row rivet pitch at ends 4 1/2" ✓ Depth of flange if manhole flanged 3" ✓
Tensile strength < Thickness of shell < Description of longitudinal joint <
Diameter of rivet holes < Pitch of rivets < Percentage of strength of joint { Plate <
Rivets <
Internal diameter < Working pressure by Rules < Thickness of crown < No. and diameter of
stays < Inner radius of crown < Working pressure by Rules <
How connected to shell < Size of doubling plate under dome < Diameter of rivet holes and pitch
of rivets in outer row in dome connection to shell <

Type of Superheater No Superheater ✓ Manufacturers of { Tubes <
Steel castings <
Number of elements < Material of tubes < Internal diameter and thickness of tubes <
Material of headers < Tensile strength < Thickness < Can the superheater be shut off and
the boiler be worked separately < Is a safety valve fitted to every part of the superheater which can be shut off from the boiler <
Area of each safety valve < Are the safety valves fitted with easing gear < Working pressure as per
Rules < Pressure to which the safety valves are adjusted < Hydraulic test pressure:
tubes < castings < and after assembly in place < Are drain cocks or valves fitted
to free the superheater from water where necessary <

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with Yes ✓

The foregoing is a correct description,

WERKSPoor

Manufacturer.

Dates of Survey { During progress of work in shops - - - 6/12, 14, 16, 18, 19, 24, 10/13, 10/14, 8/12 ✓ Are the approved plans of boiler and superheater forwarded herewith Yes ✓
(If not state date of approval.) in London Office
while building { During erection on board vessel - - - 19/11, 26, 11, 18, 27 ✓ Total No. of visits 15

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

The boilers have been made under Special Survey, in accordance with the plans, Rules and Lloyds' Surveyors' Rules, material tested as required and workmanship good.

Survey Fee ... £
Travelling Expenses (if any) £

File on machinery Report

When applied for, 192
When received, 192

F. V. Bennett

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 18 MAR 1927

Assigned

See Rpt. attached



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